

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF FIVE GROUND MOUNTED SIGNS FOR THE NATIONAL INSTITUTES OF HEALTH AND WALTER REED MEDICAL CENTER NEAR EXIT 34 OF I-495.

THIS PROJECT IS LOCATED IN MONTGOMERY COUNTY.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR  
NONE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

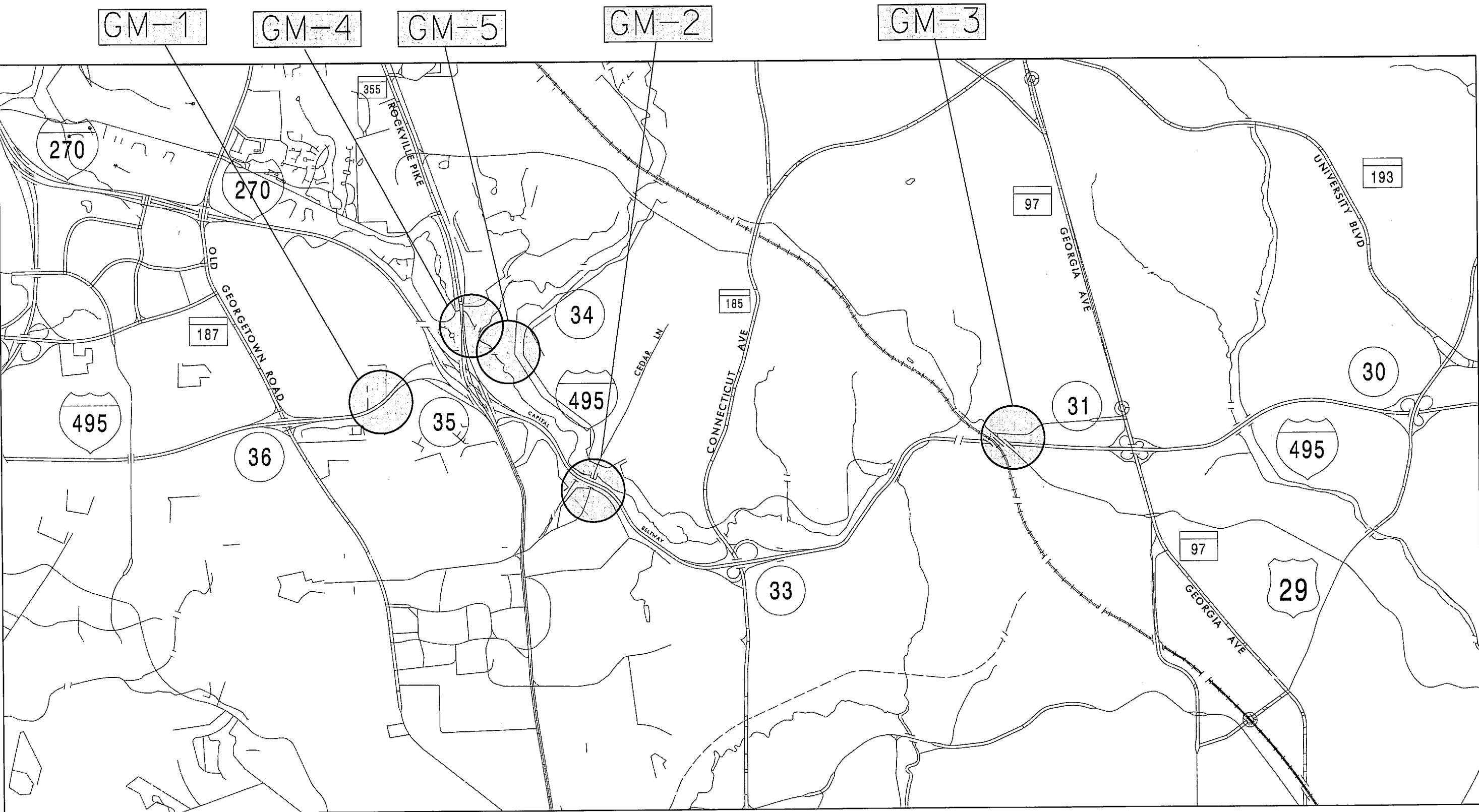
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC PER ASSIGNMENT	EA	1
8001	F & I CONCRETE FOUNDATION - GROUND MOUNTED SIGNS	CY	16
8010	F & I BREAKAWAY BASE SUPPORT SYSTEM 'B' FOR	EA	6
8024	F & I WOOD SIGN SUPPORTS UP TO 4" X 6"	LF	28
8026	F & I EXTRUDED ALUMINUM SIGN AND ALL HARDWARE,TYPE IX OR TYPE XI	SF	827
8028	F & I SHEET ALUMINUM SIGN AND ALL HARDWARE,TYPE IX OR TYPE XI	SF	20
8029	F & I PROTECTION VEHICLE - TRUCK MOUNTED	UD	6
8033	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF	387
8060	F & I GALVANIZED STEEL BEAMS (W8 X 21)	LF	71
8061	F & I GALVANIZED STEEL BEAMS (W10 X 26)	LF	85

INDEX OF SHEETS

1	AT-1	TITLE SHEET
2	SN-2.1	SIGNING PLAN
3	SN-2.2	SIGNING PLAN
4	SN-2.3	SIGNING PLAN
5	SN-2.4	SIGNING PLAN
6	SN-3.1	SIGN DETAILS & DIMENSIONS
7	SN-3.2	SIGN DETAILS & DIMENSIONS
8	SN-4.1	GUIDE SIGN SUPPORTS

GENERAL NOTES

1. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE PROPOSED SIGNS WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.



NIH & WALTER REED SIGNING  
NOT TO SCALE

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
NIH & WALTER REED SIGNING  
I-495 EXIT 34

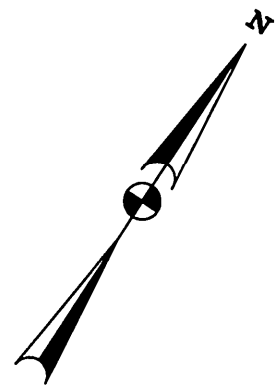
APPROVALS	REVISIONS	TITLE SHEET
<div>TEAM LEADER <i>Amy K. Bull</i> 10/12/2011</div> <div>ASST. DIV. CHIEF <i>Cheryl Schaefer</i> 10/13/2011</div> <div>DIVISION CHIEF <i>[Signature]</i> 10.13.11</div> <div>OFFICE DIRECTOR <i>[Signature]</i> 10/13/11</div>		SCALE <u>NONE</u> DATE <u>OCTOBER 2011</u> CONTRACT NO. <u>XX6575185</u>  DESIGNED BY <u>NTS</u> COUNTY <u>MONTGOMERY</u> DRAWN BY <u>NTS</u> LOGMILE <u></u> CHECKED BY <u>BJG</u> TMS NO. <u>L128</u> FAP NO. <u></u> TOD NO. <u></u>  DRAWING NO. <u>AT-1</u> OF <u>1</u> SHEET NO. <u>1</u> OF <u>8</u>

PLOTTED: Friday, September 30, 2011 AT 07:40 AM  
FILE: \\p16m1\2008\2008\08148\_1c00ea\Task 54\_I-495 NIH\CADD\pAT-0000\_I-495\_NIH.dgn

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BY: BUG

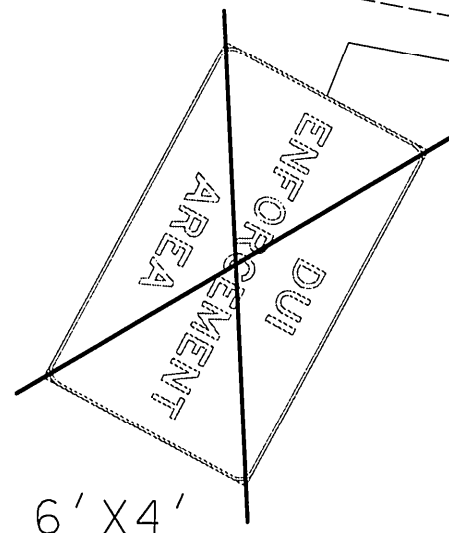


TO MD 190

MD 97

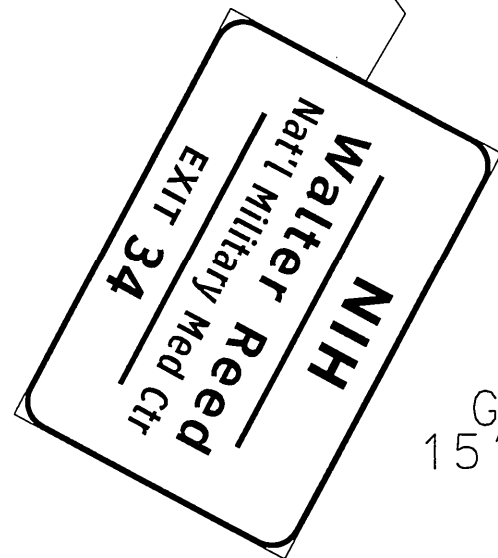
I-495 (CAPITAL BELTWAY) OUTER LOOP

I-495 (CAPITAL BELTWAY) INNER LOOP



REMOVE EXISTING SIGN AND SUPPORTS

REMOVED DUI SIGN SHALL BE RETURNED TO SHA DISTRICT 3 AT 12020 PLUM ORCHARD ROAD SILVER SPRING, MD 20904

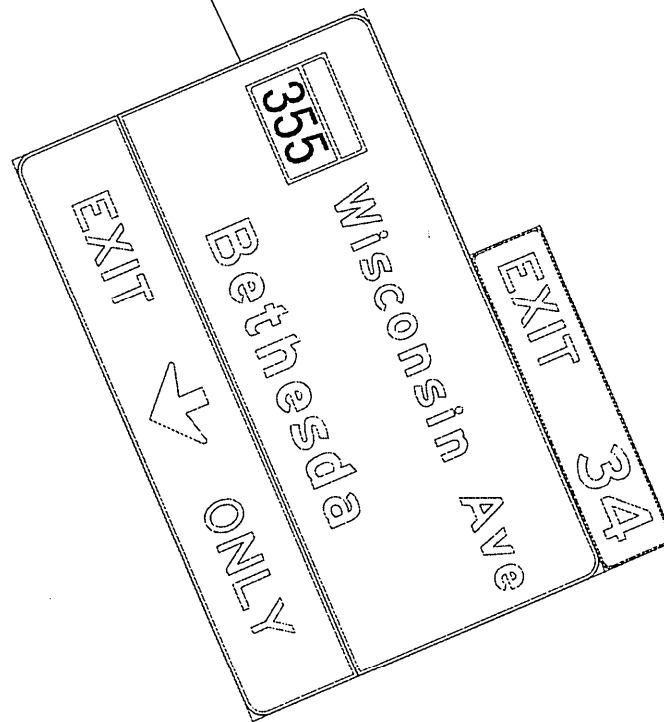
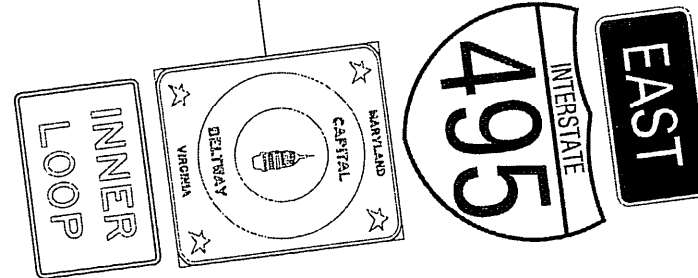


GM-1, 15' X 10'

INSTALL EDGE OF SIGN 6' FROM EDGE OF SHOULDER

INSTALL SIGN ON 2 - W8X21 STEEL BEAM SUPPORTS (BREAKAWAY)

INSTALL SIGN ANGLED AT 26° TO EDGE OF ROADWAY



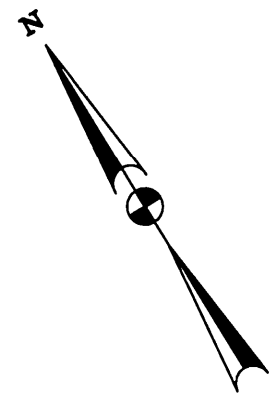
- LEGEND
- EXISTING SIGN TO REMAIN
  - EXISTING SIGN TO BE REMOVED
  - PROPOSED SIGN
  - EXISTING GROUND MOUNTED SIGN
  - PROPOSED GROUND MOUNTED SIGN

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I-495 EXIT 34

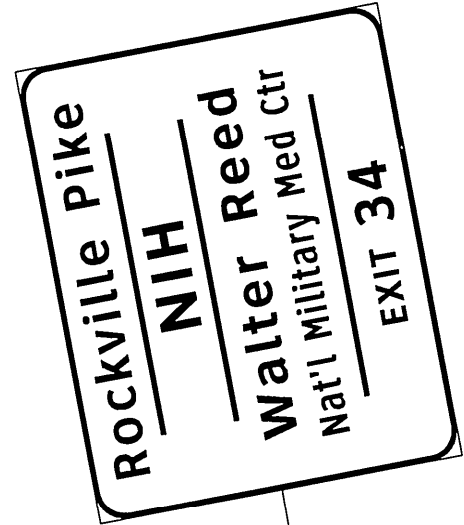
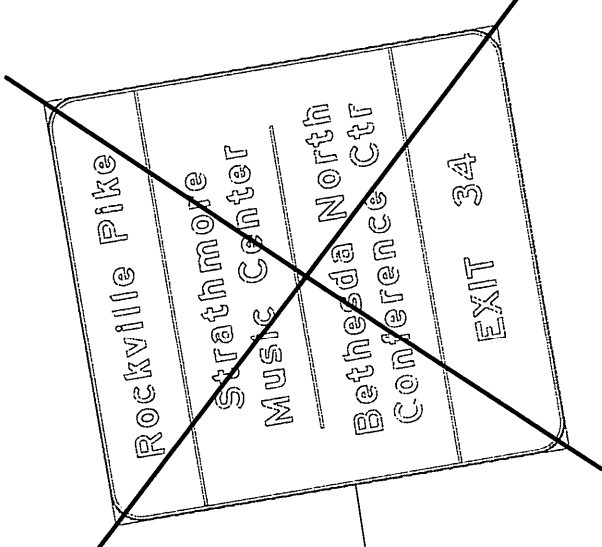
REVISIONS	SIGNING PLAN		
	SCALE	DATE	CONTRACT NO.
	NONE	OCTOBER 2011	XX6575185
	DESIGNED BY	NTS	COUNTY
	DRAWN BY	NTS	MONTGOMERY
	CHECKED BY	BJG	LOGMILE
	FAP NO.		L128
			TOD NO.
	DRAWING NO.	SN-2.1	OF 2.4
			SHEET NO. 2 OF 8

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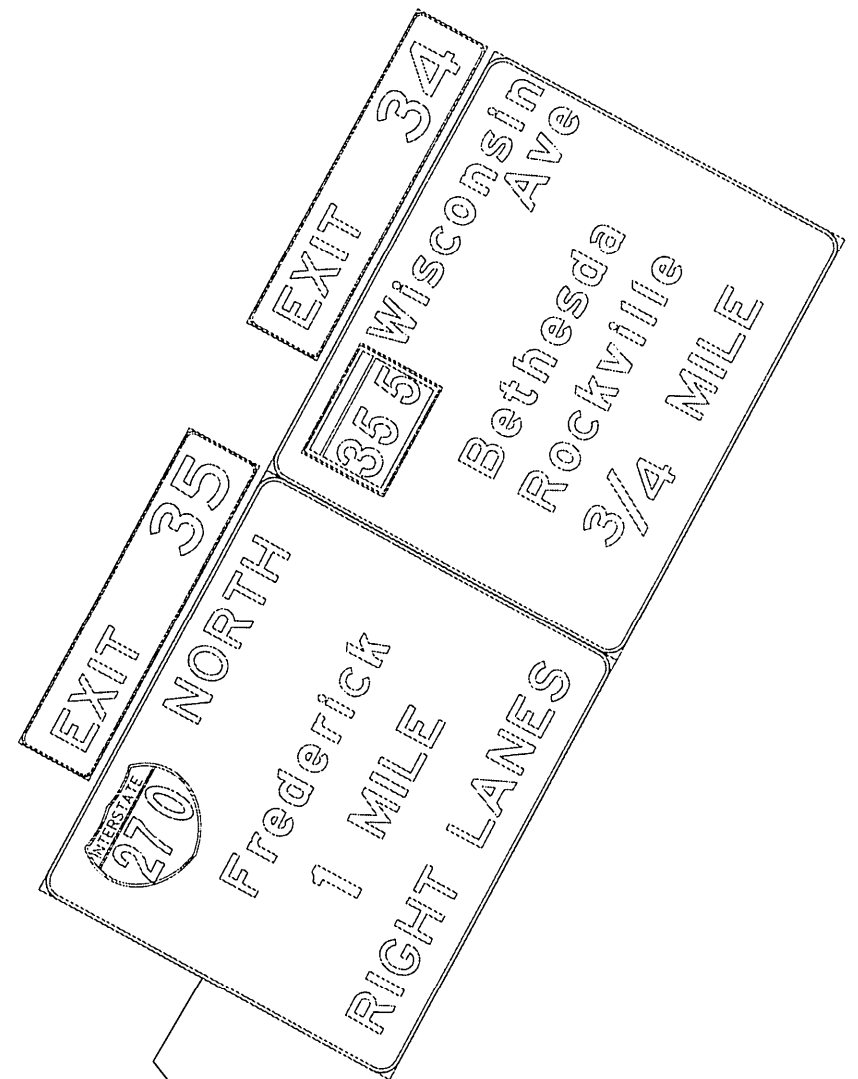
14'X16'  
REMOVE EXISTING SIGN  
EXISTING STEEL SUPPORTS TO REMAIN



GM-2  
15'X12'  
INSTALL SIGN ON  
EXISTING W14X30 STEEL  
SUPPORTS

TOP OF PROPOSED SIGN SHALL BE  
INSTALLED FLUSH WITH TOP OF  
EXISTING SIGN SUPPORTS  
  
PROPOSED SIGN SHALL BE  
INSTALLED HORIZONTALLY CENTERED  
ON EXISTING SIGN SUPPORTS

TREE TRIMMING IS REQUIRED



TO MD 190

MD 97

I-495 (CAPITAL BELTWAY) OUTER LOOP

I-495 (CAPITAL BELTWAY) INNER LOOP

LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN

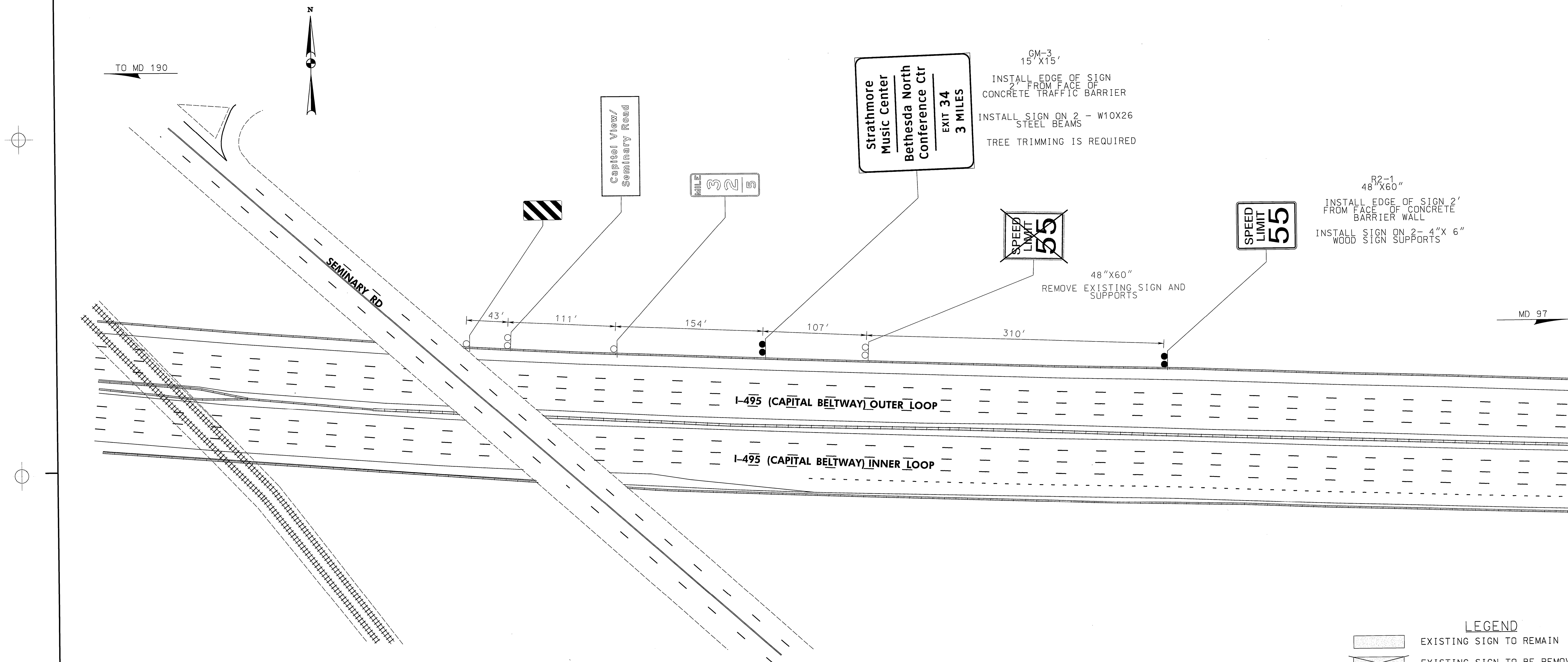
**SHA**

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NIH & WALTER REED SIGNING  
I-495 EXIT 34

REVISIONS	SIGNING PLAN		
	SCALE	DATE	CONTRACT NO.
	NONE	OCTOBER 2011	XX6575185
	DESIGNED BY	COUNTY	
	NTS	MONTGOMERY	
	DRAWN BY	LOGMILE	
	NTS		
	CHECKED BY	TMS NO.	
	BJG	L128	
	FAP NO.	TOD NO.	
	DRAWING NO.	SN-2.2	OF 2.4
			SHEET NO. 3 OF 8

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- LEGEND
- EXISTING SIGN TO REMAIN
  - EXISTING SIGN TO BE REMOVED
  - PROPOSED SIGN
  - EXISTING GROUND MOUNTED SIGN
  - PROPOSED GROUND MOUNTED SIGN

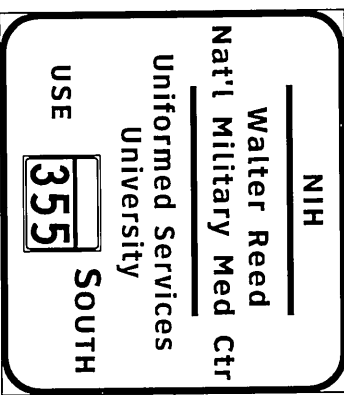
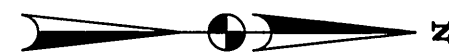
	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION		
	NIH & WALTER REED SIGNING I-495 EXIT 34		
	SIGNING PLAN		
	SCALE <u>NONE</u>	DATE <u>OCTOBER 2011</u>	CONTRACT NO. <u>XX6575185</u>
	DESIGNED BY <u>NTS</u>	COUNTY <u>MONTGOMERY</u>	
DRAWN BY <u>NTS</u>	LOGMILE <u></u>		
CHECKED BY <u>BJG</u>	TMS NO. <u>L128</u>		
FAP NO. <u></u>	TOD NO. <u></u>		
DRAWING NO. <u>SN-2.3</u>	OF <u>2.4</u>	SHEET NO. <u>4</u> OF <u>8</u>	

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FILE: \\viken\2008\2008\08148\_toddes\Task 54\_I-495\_NIH\CADD\PSN-2003\_I-495\_NIH.dgn





GM-4,  
10'x9'

INSTALL EDGE OF SIGN 6'  
FROM FACE OF CURB

INSTALL SIGN ON 2 - W8X21  
STEEL SIGN SUPPORTS  
(BREAKAWAY)

GROSVENOR LN

MD 355 (ROCKVILLE PIKE) SB

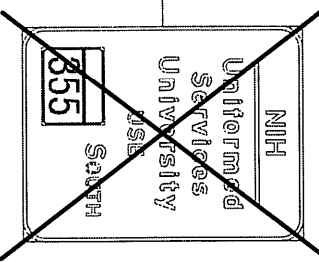
MD 355 (ROCKVILLE PIKE) NB

GROSVENOR LN

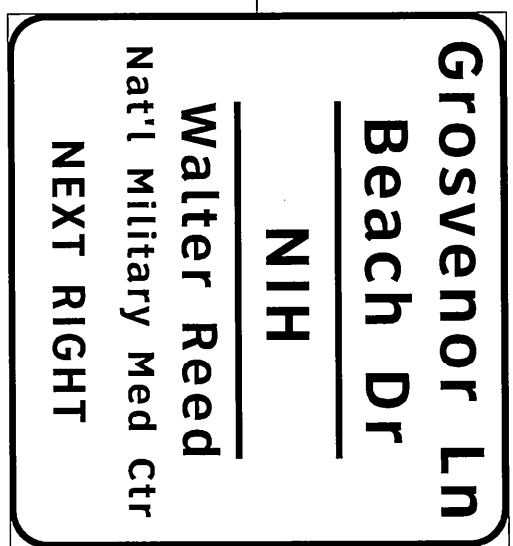
BEACH DRIVE

LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN



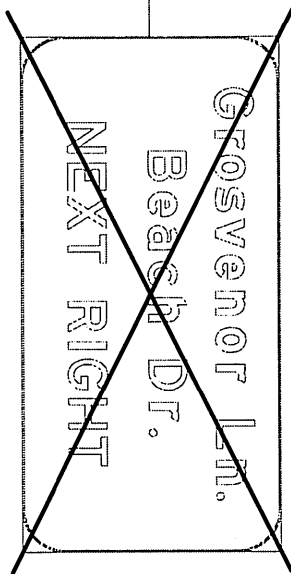
5'X7'  
REMOVE EXISTING SIGN AND  
SUPPORTS



GM-5,  
14'x13'

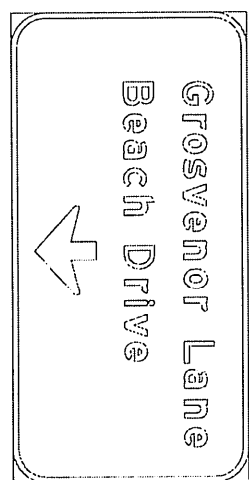
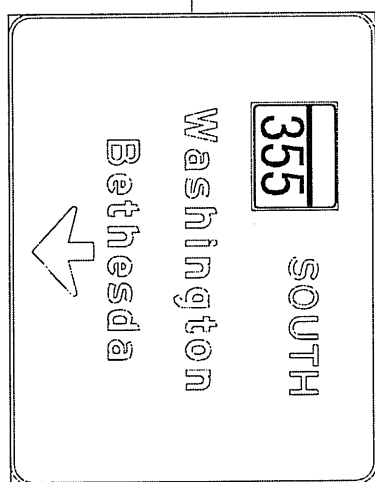
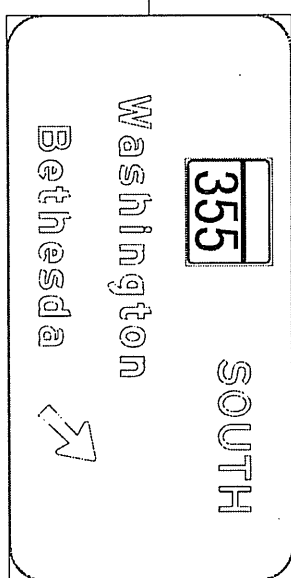
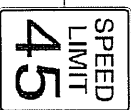
INSTALL FACE OF SIGN  
5' FROM FACE OF CURB

INSTALL SIGN ON 2 - W10X26  
STEEL SIGN SUPPORTS  
(BREAKAWAY)



14'X6'

REMOVE EXISTING SIGN, STEEL  
SIGN SUPPORTS AND  
FOUNDATION 12" BELOW GRADE



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TRAFFIC ENGINEERING DESIGN DIVISION

NIH & WALTER REED SIGNING  
I-495 EXIT 34

SIGNING PLAN

SCALE NONE DATE OCTOBER 2011 CONTRACT NO. XX6575185

DESIGNED BY NTS COUNTY MONTGOMERY  
DRAWN BY NTS LOGMILE  
CHECKED BY BJC TMS NO. L128  
FAP NO. TOD NO.

DRAWING NO. SN-2.4 OF 2.4 SHEET NO. 5 OF 8



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FILE: \\vkm\l\2008\2008\08148\caddes\Task 54\_I-495\_NIH\CADD\pSN-2004\_I-495\_NIH.dgn

PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND	SIZE			COLOR			BORDER		ARROW	SHIELD	REMARKS
				AREA (S.F.)	WIDTH	HEIGHT	LEGEND	BORDER	BCKGRND	WIDTH	RADIUS			
GM-1	SN-2.1	1	<div><div><div>15'-0"</div><div>10'-0"</div><div>100"</div><div>10"(1)</div><div>10"</div><div>BORDER 17.8"</div><div>R=12"</div><div>TH=2"</div></div><div><div>NIH</div><div>Walter Reed</div><div>Nat'l Military Med Ctr</div><div>EXIT 34</div></div><div><div>11"(2)</div><div>16"(2)</div><div>9"</div><div>8.5"(2)</div><div>13.3"(2)</div><div>9.2"</div><div>10.7"(3)</div><div>8.3"(2)</div><div>17.5"(1)</div><div>7.5"</div></div><div>145.1"</div><div>17.1"</div><div>FONT: (1) ClearviewHwy-4-W (2) ClearviewHwy-5-W (3) ClearviewHwy-2-W</div></div>	150	15'	10'	W	W	G	2"	12"	-	-	EXTRUDED ALUMINUM
GM-2	SN-2.2	1	<div><div><div>15'-0"</div><div>12'-0"</div><div>122.9"</div><div>10"(1)</div><div>11.1"</div><div>BORDER 16.2"</div><div>R=12"</div><div>TH=2"</div></div><div><div>Rockville Pike</div><div>NIH</div><div>Walter Reed</div><div>Nat'l Military Med Ctr</div><div>EXIT 34</div></div><div><div>13.5"</div><div>13.3"(1)</div><div>5.5"(2)</div><div>16"(2)</div><div>8.5"(2)</div><div>13.3"(2)</div><div>9.2"</div><div>10.7"(3)</div><div>8.3"(2)</div><div>17.5"(1)</div><div>15"(1)</div><div>18.7"</div></div><div>147.6"</div><div>16.2"</div><div>FONT: (1) ClearviewHwy-4-W (2) ClearviewHwy-5-W (3) ClearviewHwy-2-W</div></div>	180	15'	12'	W	W	G	2"	12"	-	-	EXTRUDED ALUMINUM
GM-3	SN-2.3	1	<div><div><div>15'-0"</div><div>15'-0"</div><div>132.7"</div><div>10"(1)</div><div>10.3"</div><div>15"(1)</div><div>12"</div><div>BORDER 16"</div><div>R=12"</div><div>TH=2"</div></div><div><div>Strathmore Music Center</div><div>Bethesda North Conference Ctr</div><div>EXIT 34</div><div>3 MILES</div></div><div><div>13.5"</div><div>13.3"(2)</div><div>9.5"</div><div>13.3"(2)</div><div>10.3"(2)</div><div>10.3"(2)</div><div>13.3"(2)</div><div>9.7"</div><div>13.3"(2)</div><div>11.5"(2)</div><div>15"(1)</div><div>9.3"</div><div>12.3"(1)</div><div>13.7"</div></div><div>148"</div><div>16"</div><div>FONT: (1) ClearviewHwy-4-W (2) ClearviewHwy-3-W</div></div>	225	15'	15'	W	W	G	2"	12"	-	-	EXTRUDED ALUMINUM

COLORS: B=BLACK, BLU=BLUE, BRO=BROWN, G=GREEN, W=WHITE/SILVER, Y=YELLOW, R=RED, FYG=FLUORESCENT YELLOW/GREEN, FY=FLUORESCENT YELLOW

SHA

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NIH & WALTER REED SIGNING  
I-495 EXIT 34

REVISIONS

SIGN DETAILS AND DIMENSIONS

SCALE NONE DATE OCTOBER 2011 CONTRACT NO. XX6575185

DESIGNED BY NTS COUNTY MONTGOMERY

DRAWN BY NTS LOGMILE

CHECKED BY BJG TMS NO. L128

FAP NO. TOD NO.

DRAWING NO. SN-3.1 OF 3.2 SHEET NO. 6 OF 8

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PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND	SIZE			COLOR			BORDER		ARROW	SHIELD	REMARKS
				AREA (S.F.)	WIDTH	HEIGHT	LEGEND	BORDER	BCKGRND	WIDTH	RADIUS			
GM-4	SN-2.4	1	<p>BORDER: R=12" TH=2"</p> <p>FONT: (1) ClearviewHwy-5-W (2) ClearviewHwy-4-W</p>	90	10'	9'	W	W	G	2"	12"	—	M1-5(1) 30"X24"	EXTRUDED ALUMINUM
GM-5	SN-2.4	1	<p>BORDER: R=12" TH=2"</p> <p>FONT: (1) ClearviewHwy-5-W (2) ClearviewHwy-4-W</p>	182	14'	13'	W	W	G	2"	12"	—	—	EXTRUDED ALUMINUM

COLORS: B=BLACK, BLU=BLUE, BRO=BROWN, G=GREEN, W=WHITE/SILVER, Y=YELLOW, R=RED, FYG=FLUORESCENT YELLOW/GREEN, FY=FLUORESCENT YELLOW



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OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

NIH & WALTER REED SIGNING  
I-495 EXIT 34

REVISIONS	SIGN DETAILS AND DIMENSIONS		
	SCALE	DATE	CONTRACT NO.
	NONE	OCTOBER 2011	XX6575185
	DESIGNED BY	NTS	COUNTY
	DRAWN BY	NTS	LOGMILE
	CHECKED BY	BJG	TIMS NO.
	FAP NO.		TOD NO.
	DRAWING NO.	SN-3.2	OF 3.2
			SHEET NO. 7 OF 8



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## GUIDE SIGN STEEL SUPPORT CHART

[illegible]

NOTES:

1. THE CONTRACTOR SHALL VERIFY THE FINAL FOUNDATION TYPE TO BE USED SO THAT THE FOUNDATION DOES NOT EXCEED A 4' PROJECTION ABOVE THE GROUND.
2. ALL NON-BREAKAWAY FOUNDATIONS SHALL BE TYPE A

## STEEL BREAKAWAY SUPPORT FOUNDATION SELECTION MATRIX

POST SIZE	FOUNDATION DIAMETER	ROADWAY CUT / FILL SLOPE											
		≥2:l	3:l	4:l	5:l	6:l	7:l	8:l	9:l	10:l	12:l	≤13:l	
W6x9	30"	*	C	C	C	C	B	B	B	A	A	A	
W6x12 or TS 5'X5'1/4"	30"	*	C	C	C	C	B	B	B	A	A	A	
W6x15 or TS 6'X6'X1/4"	30"	*	C	C	C	C	B	B	B	A	A	A	
W8x18	30"	*	C	C	C	C	B	B	B	A	A	A	
W8x21 or TS 7'X7'X1/4"	30"	*	C	C	C	C	B	B	B	A	A	A	
W10x22 or TS 8'X8'X5/16"	36"	*	*	C	C	C	C	B	B	B	A	A	
W10x26	36"	*	*	C	C	C	C	B	B	B	A	A	
W12x26	36"	*	*	C	C	C	C	B	B	B	A	A	
W14x30	36"	*	*	C	C	C	C	B	B	B	A	A	
W16x31	36"	*	*	C	C	C	C	B	B	B	A	A	
W18x35 or W18x40	36"	*	*	C	C	C	C	B	B	B	A	A	
W21x44	42"	*	*	C	C	C	C	B	B	B	A	A	

\* IF A FOUNDATION EXCEEDS THE 4" AASHTO CRITERIA,  
THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR APPROPRIATE GUIDANCE.

SEE MARYLAND STANDARD DRAWINGS FOR FOUNDATION DETAILS:

TYPE A = STANDARD MD 80I.04  
TYPE B = STANDARD MD 80I.04-01  
TYPE C = STANDARD MD 80I.04-02

## GUIDE SIGN WOOD SUPPORT CHART

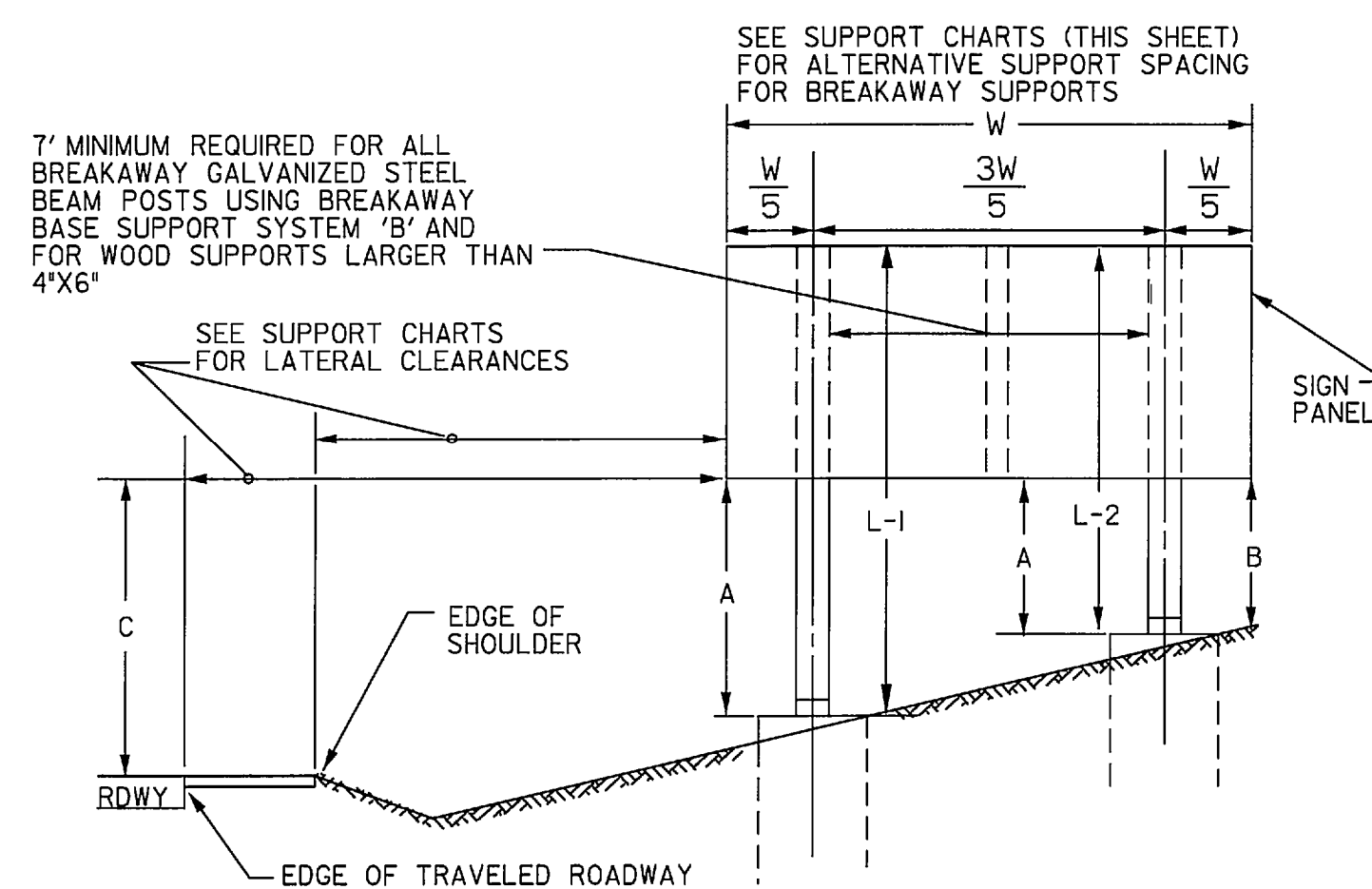
[illegible]

\* BW = BREAKAWAY      NBW = NON-BREAKAWAY

**NOTES:** 1. SEE MARYLAND STANDARDS 812.01, 812.04, AND 813.02 FOR WARNING AND REGULATORY SIGN INSTALLATION.

2. L1 AND L2 POST LENGTHS DO NOT INCLUDE EMBEDMENT LENGTHS.  
CONTRACTOR SHALL INCLUDE 5' EMBEDMENT FOR ALL 4"x4" & 4"x6" SUPPORTS.  
CONTRACTOR SHALL INCLUDE 6' EMBEDMENT FOR ALL 6"x6" & 6"x8" SUPPORTS.

SIGN CLEARANCE



### VERTICAL CLEARANCE OF SIGNS

- A. 7'-6" MINIMUM FOR BREAKAWAY SUPPORTS OR 5'-6" FOR NON-BREAKAWAY SUPPORTS.  
 B. 2'-0" MINIMUM  
 C. 7'-6" MINIMUM & PREFERABLE. THIS DIMENSION IS TO BE INCREASED ONLY WHEN REQUIRED TO MEET A = 7'-6" FOR BREAKAWAY OR A (MIN.) = 5'-6" FOR NON-BREAKAWAY AND B (MIN.) 2'-0"
- ALL DIMENSIONS ARE TO BOTTOM OF SIGN

•TOTAL WEIGHT BELOW THE HINGES SHOULD BE LESS THAN 600 POUNDS

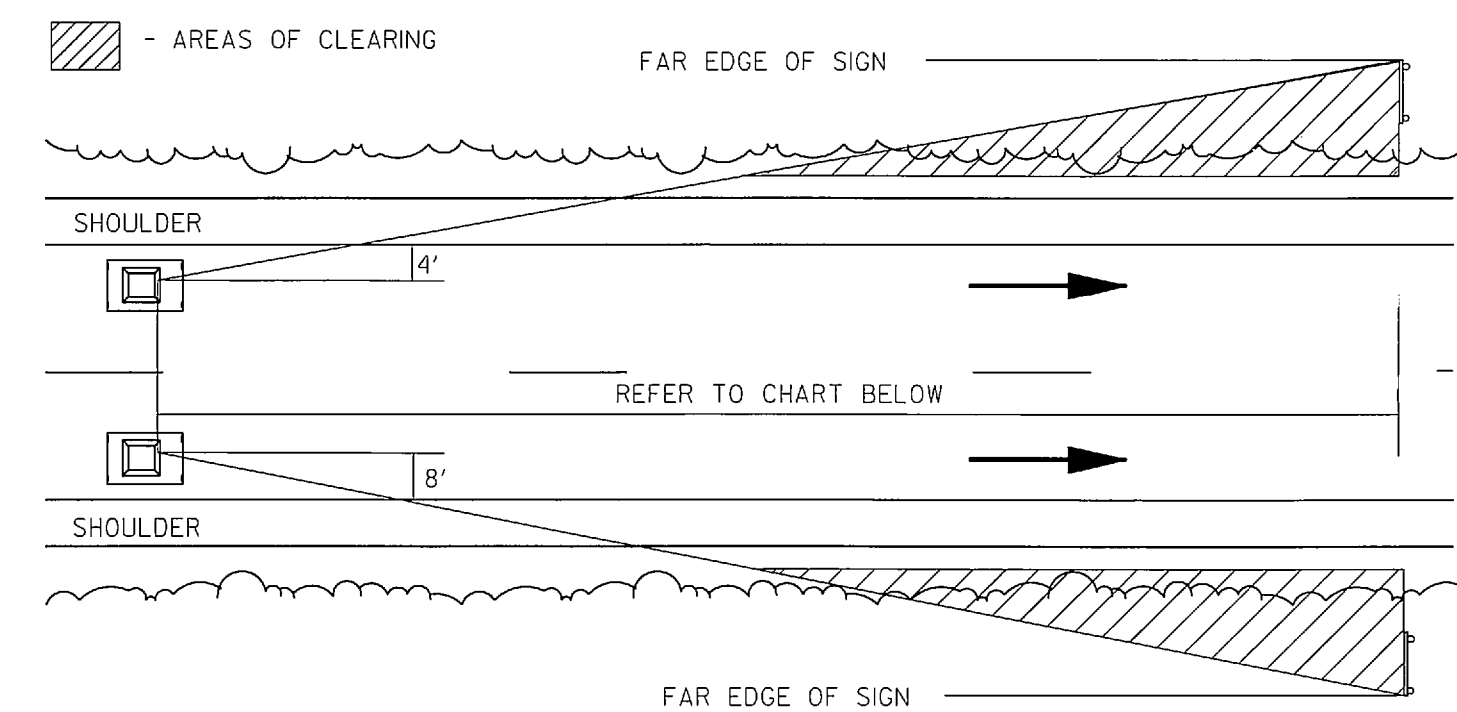
### LATERAL CLEARANCE

SEE SUPPORT CHARTS

## •• OBJECT CODES

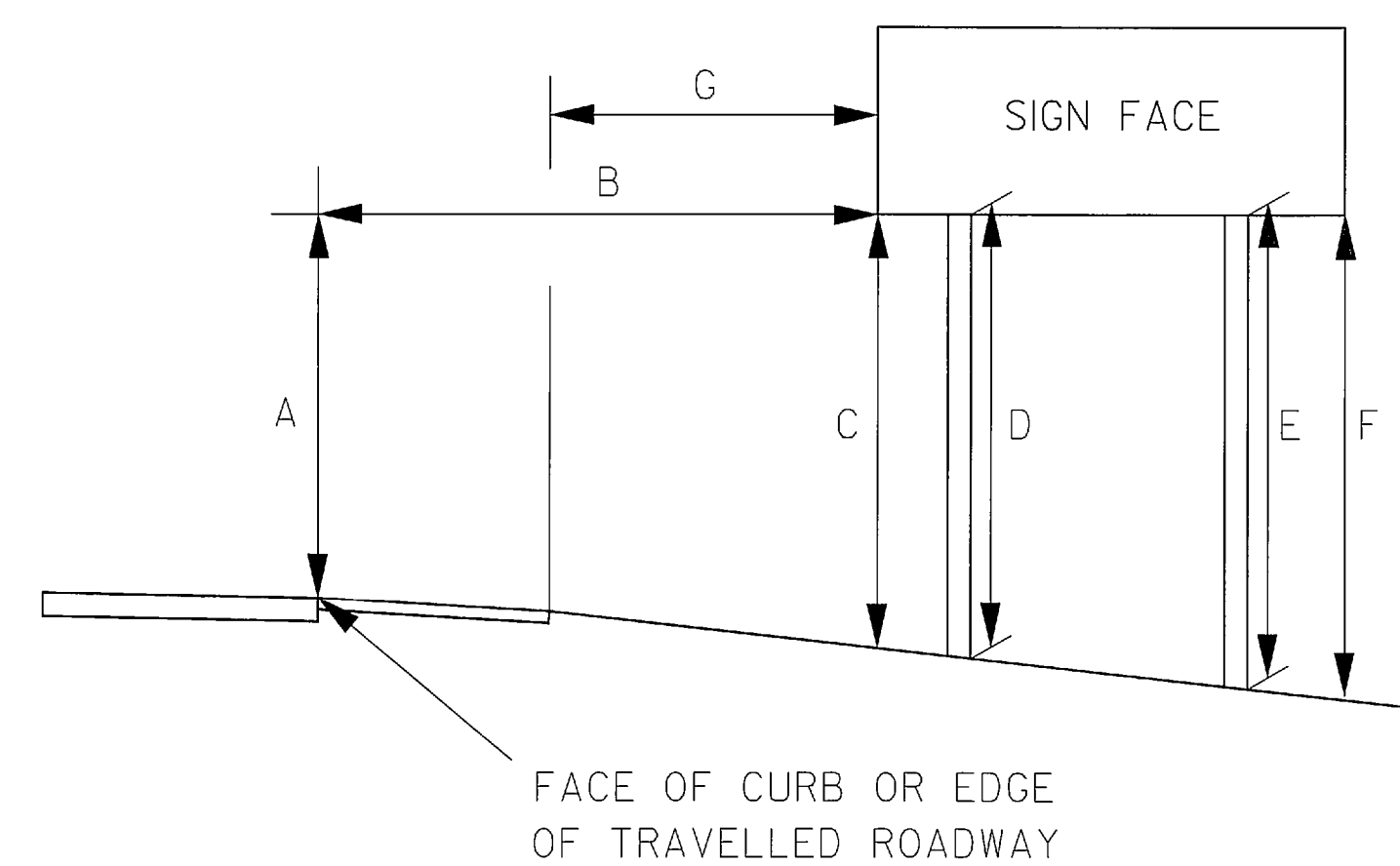
FOW = FACE OF W-BEAM TRAFFIC BARRIER  
 FOCTB = FACE OF CONCRETE TRAFFIC BARRIER  
 FOC = FACE OF CURB  
 ES = EDGE OF SHOULDER  
 ETR = EDGE OF TRAVELED ROADWAY  
 CM = CENTERED IN MEDIAN  
 CG = CENTERED IN GORE (6' MINIMUM FROM EDGE OF PAVEMENT)

### FOLIAGE CLEARING FOR SIGN INSTALLATIONS




Acceptable Viewing Distance for Sign	
<u>Copy Size</u>	<u>Distance</u>
20' u.c.	1000 ft
16' u.c.	800 ft
13.3 u.c.	675 ft
10.67 u.c	550 ft

## SIGN STAKEOUT DIMENSIONS



NOTE: SEE SECTION 802 IN THE CONTRACT DOCUMENTS  
FOR SIGN STAKEOUT LOCATIONS.

	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION  OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION		
	NIH & WALTER REED SIGNING I-495 EXIT 34		
GUIDE SIGN SUPPORTS			
SCALE <u>NONE</u> DATE <u>OCTOBER 2011</u> CONTRACT NO. <u>XX6575185</u>			
DESIGNED BY <u>NTS</u>		COUNTY <u>MONTGOMERY</u>	
DRAWN BY <u>NTS</u>		LOGMILE <u>          </u>	
CHECKED BY <u>BJG</u>		TIMS NO. <u>L128</u>	
FAP NO. <u>          </u>		TOD NO. <u>          </u>	
DRAWING NO. <u>SN-4.1</u>		OF <u>4.1</u>	SHEET NO. <u>8</u> OF <u>8</u>